



Beamer TV (BM-TV) User's Guide

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Please read this User's Guide.

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Important Safety Precautions

Always follow these basic safety precautions when using your Beamer TV. This will reduce the risk of fire, electric shock, and injury.

- Unplug Beamer TV from both the power outlet and the wall jack before performing care and maintenance.
- Should any solid object or liquid fall into the housing, unplug Beamer TV and have it checked by qualified personnel before operating it again.
- Do not use this product near water or when you are wet.
- Slots and openings on the Beamer TV are for ventilation to prevent overheating. Do not cover them up.
- Do not place Beamer TV near a heat source or in direct sunlight.
- Do not disassemble Beamer TV. There are no user-serviceable parts inside.
Disassembly of Beamer TV will void your warranty.
- Only use the AC power adapter included with Beamer TV. **Using any other power adapter will void your warranty.**

Introduction

Congratulations! You have just purchased Beamer TV™ - Vialta's first Videophone Station™ that works with your own phone and television. You will now be able to add video, through your television, to the phone calls you make and receive from friends and family.

Seeing your friends and family while talking to them on the phone is easy. Follow the easy set up, make or receive a call from someone with any Beamer™ product and add a whole new dimension to your phone calls. It's that easy! With Beamer TV, staying in touch is more than just a voice on the other end of the telephone line - it's live, full color video on your television at up to 15 frames per second. And since Beamer TV uses your regular telephone line, there is no additional cost to your regular phone call.

Please take a moment to fill out the enclosed Warranty Card to activate your warranty. You can also register online at www.vialta.com/owners

What's Included with your Beamer TV

Everything you need to install your Beamer TV is included in the package:

- (2) Standard 25-foot telephone cord (RJ-11)
- Standard 6-foot video cable
- Remote Control
- AC Power Adapter
- This User's Guide
- Warranty Card

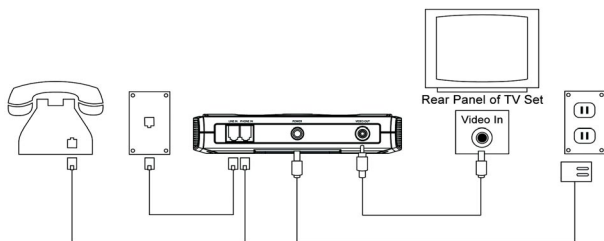
Installing your Beamer TV

You can use your Beamer TV with any home phone, including a cordless phone or a speakerphone, for a hands-free experience. You'll also need a television with a video input jack.

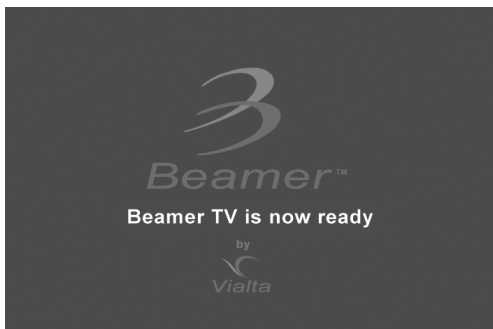
*Note: Connect the telephone line directly to your Beamer TV; it is **not** designed to be used with a PBX (Private Branch Exchange).*

Installing your Beamer TV with a Single-Line Phone

- 1) Place your Beamer TV on top of your television.
- 2) Connect one end of a supplied telephone cord to your nearest telephone wall jack and the other end to the **LINE IN** jack on the back of your Beamer TV.
- 3) Connect one end of a supplied telephone cord to your phone and the other end to the **PHONE IN** jack on the back of your Beamer TV.
- 4) Plug one end of the enclosed video cable into the **VIDEO OUT** jack on the back of Beamer TV and the other end into a Video input jack on your television.
- 5) Set your television to use the correct video source.
- 6) Plug the AC power adapter's pin into the **POWER IN** jack on the back of your Beamer TV.
- 7) Plug the power cord into a wall socket.



Your television will display the message “Beamer TV is now ready” to let you know when it is ready for you to place or receive a video call.



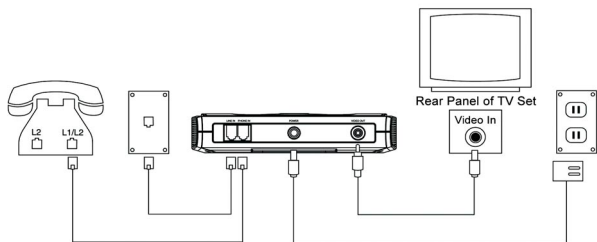
Installing your Beamer TV with a Two-Line Phone

Your Beamer TV also works with a two-line phone. Be sure to place and receive video calls on Line 1 only. If you are on a video call and receive a phone call on Line 2, Beamer TV will let the call ring through to that line. We recommend that you use another phone to answer the call instead of putting the video call on hold. If you put your Beamer TV video call on hold to answer a new call on the second line, your video call may be disconnected.

Two-Line Phone with a Single Wall Jack

If you have a two-line phone that connects to a single wall jack, connect your Beamer TV to the wall jack and to the L1 or L1/L2 jack on your two-line phone.

- 1) Place your Beamer TV on top of your television.
- 2) Connect one end of a supplied telephone cord to your nearest telephone wall jack and the other end to the **LINE IN** jack on the back of your Beamer TV.
- 3) Connect one end of a supplied phone cord to the L1 or L1/L2 jack of your two-line phone and the other end to the **PHONE** jack on the back of your Beamer TV.
- 4) Plug one end of the enclosed video cable into the **VIDEO OUT** jack on the back of Beamer TV and the other end into a Video input jack on your television.
- 5) Set your television to the correct video input source.
- 6) Plug the AC power adapter's pin into the **POWER IN** jack on the back of your Beamer TV.
- 7) Plug the power cord into a wall socket.



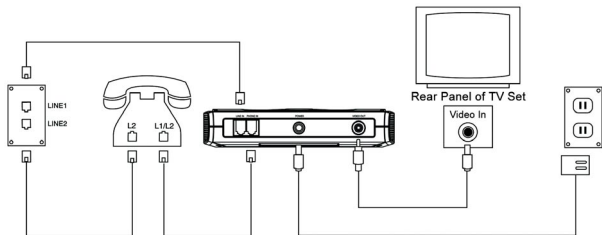
Your television displays the message “Beamer TV is now ready” to let you know when it’s ready for you to place or receive a video call. See the figure on page 5.

Two-Line Phone with a Double Wall Jack

If you have a two-line phone that connects to a double wall jack, connect your Beamer TV to Line 1 of your double wall jack, and to the L1 or L1/L2 jack on your two-line phone.

- 1) Place your Beamer TV on top of your television.
- 2) Connect one end of a supplied telephone cord to your nearest telephone wall jack and the other end to the **LINE IN** jack on the back of your Beamer TV.
- 3) Connect one end of a supplied phone cord to the L1 or L1/L2 jack of your two-line phone and the other end to the **PHONE** jack on the back of your Beamer TV.
- 4) Plug the one end of the enclosed video cable into the **VIDEO OUT** jack on the back of Beamer TV and the other end into the Video input jack on your television.
- 5) Set your television to the correct video input source.

- 6) Plug the AC power adapter's pin into the **POWER IN** jack on the back of your Beamer TV.
- 7) Plug the power cord into a wall socket.



Your television displays the message “Beamer TV is now ready” to let you know when it is ready for you to place or receive a video call. See the figure on page 5.

Preparing Beamer TV's Remote Control

Before using the remote control for Beamer TV you need to remove the protective cover over the battery.

- 1) Remove battery cover.
- 2) Pull plastic covering from top of battery.
- 3) Replace battery cover.

If you notice that the remote control is not performing as usual, the battery may need to be replaced. Replace battery with same type and voltage.

Adjusting the Camera Angle

You can adjust your Beamer TV's self-focusing camera lens up and down to account for the height of your television and where you sit to make your video call. Beamer TV is optimized for callers to sit 4-12 feet from the unit. For best results, we recommend sitting between 6-8 feet from your Beamer TV.

- 1) Turn on your television and set it to the correct video source.
- 2) Press the **START/VIEWS** button on the remote control or on top of your Beamer TV to see the Self view (you'll see yourself as the other party will see you during a video call).
- 3) Carefully tilt the camera lens until your image is centered the way you want it.
- 4) Press the **START/VIEWS** button on the remote control or on top of your Beamer TV to remove self view.

Placing a Video Call with your Beamer TV

When placing a call with your Beamer TV, the person you are calling must also have a Beamer videophone (BM-80, BM-TV or BM-FX) or H.324 compatible device. To maximize your Beamer TV's performance capabilities, and to take full advantage of its great features, we highly recommend that both parties use Beamers when placing a video call. (See *Compatibility* on page 21.)

- 1) Use the phone connected to your Beamer TV to place the call. (Audio will only come from the phone handset connected to Beamer TV)
- 2) Turn television on and set to correct video source.
- 3) When the other party answers and you are ready to start the video call, press the **START/VIEWS** button. You'll see and hear a message indicating that your Beamer TV is preparing the video. Your television will then show the Self view along with a progress bar that will indicate when the video connection is complete.

IMPORTANT: If both parties press the **START/VIEWS** button at the same time, the video connection may fail. If this happens, your Beamer will prompt you to press the **START/VIEWS** button to try again.

It takes 15-60 seconds to complete the video connection between you and the person you are calling. For the first few seconds, you'll hear a series of beeps and tones on the line. Wait until you see the **LIVE** text on the screen before continuing your conversation. While the other party will now be able to see you on their display, you will only see the **Privacy On** screen until the other party sends their video image.



Making video connection

- 4) To send a video image, the receiving party must press their **START/IEWS** button. The receiving party should not press their **START/IEWS** button until the initial video connection - from you to the person you're calling - is complete.



Combo view

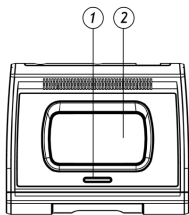
- 5) To end your video call, simply hang up the phone.

Receiving a Video Call with your Beamer TV

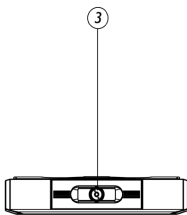
- 1) Answer the call with the phone connected to Beamer TV.
- 2) Follow steps #2, #3 and #4 in *Placing a Video Call with your Beamer TV* on page 9.

Locating your Beamer TV's Features

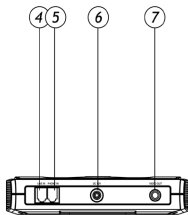
Your Beamer TV places everything you need right at your fingertips.



Top View

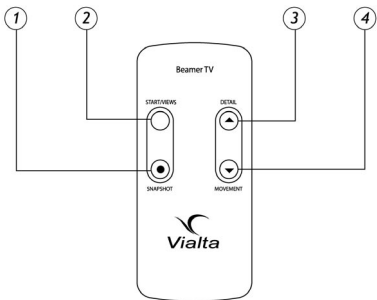


Front View



Rear View

- 1 Start/Views Button
- 2 Remote Control
- 3 Camera Lens
- 4 Line In Jack
- 5 Phone In
- 6 Power In 12V DC
- 7 Video Out



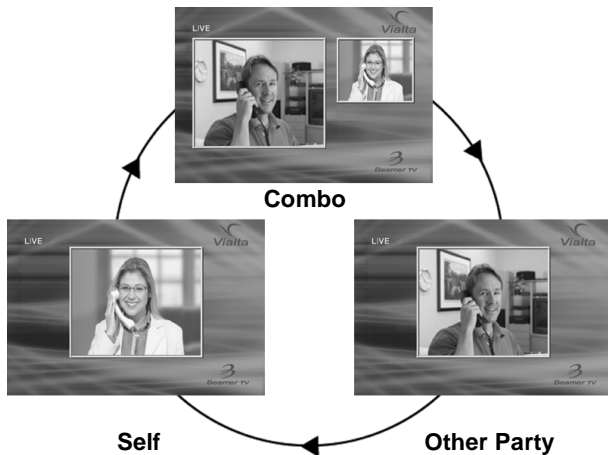
- 1 Snapshot Button
- 2 Start/Views Button
- 3 Detail Button
- 4 Movement Button

Using your Beamer TV's Features

Start/Views Button

Use the **START/VIEWS** button on the remote control or on top of Beamer TV to start a video call. During a video call, press either **START/VIEWS** button to step through the three viewing options:

- Combo view (see yourself and the other party)
- Other Party view (see only the other party)
- Self view (see only yourself).



Snapshot Button and Privacy Feature

Use the **SNAPSHOT** button to send a single high resolution still picture instead of live video. You can continue talking while showing the other party a detailed picture, like a document or photo. You can also use this feature for privacy because the other party sees only the still picture that you sent, not any activity in front of your Beamer TV. When you're ready to resume sending live video, just press the **SNAPSHOT** button again.

- 1) Press the **SNAPSHOT** button once to capture your current picture and send it as a single high resolution still picture.

Important: If you press the SNAPSHOT button a second time, Snapshot mode is canceled and live video resumes.



Sending snapshot

Note: You'll see the message "Sending snapshot" to let you know that your Beamer TV is sending the snapshot.

- 2) When the other party receives the high resolution still picture that you sent, you'll see "Snapshot sent" on your screen.

The other party sees similar status messages indicating the progress of the transmission. They will also see a "Snapshot received" message as a reminder that they are seeing a snapshot.



Receiving snapshot

- 3) To resume sending live video, press the **SNAPSHOT** button once. The snapshot messages disappear and live video replaces the still picture.

Note: Only the party who sent the snapshot can restart their live video.

Detail/Movement Buttons

The **DETAIL/MOVEMENT** buttons adjust the sharpness of the video you see. It is a balance between detail and movement. Press the **DETAIL** button to increase picture sharpness. Press the **MOVEMENT** button to see more fluid motion.

When you press the **DETAIL/MOVEMENT** buttons, an indicator bar shows the current setting.



Adjusting video

Line Quality Indicator

The quality of your video call depends on the quality of your telephone line. A blinking red “LINE” will appear in the upper, right hand corner of the television if the line quality drops by more than 10%. If the Line Quality Indicator appears frequently, you may want to try your call again or have your telephone line tested by your local carrier.

When the line quality drops too low to support a video call, Beamer TV will automatically attempt to improve the connection, which may take up to 20 seconds. During this time a beep and a “Please wait” message will be heard. If the connection has improved enough to support a video call, a second beep will be heard and you may continue your video call. However, if the connection still cannot support a video call, your television will display “Line condition cannot support video. Returning to voice only call. Press START/VIEWS to try video again”. At this time, you may continue a voice only call or try to establish a video call again by pressing the **START/VIEWS** button.

Tips

Follow these tips to get better results with your Beamer TV.

Lighting

Correct lighting is important for good picture quality. For optimal results, we recommend front or side lighting. Don't place lights or mirrors behind you, since they may shine into the camera lens.

Best Viewing Distance

Beamer TV is designed for callers to sit 4-12 feet from the unit. For best results, we recommend sitting 6-8 feet from your Beamer TV.

Use Self View to find best camera angle

Before making a call use the **START/VIEWS** button to make sure that you are correctly lined up with the camera and to preview what the other party will see.

Movement

If you make rapid movements, the other party may see a slightly blurred picture. Just move naturally in front of the camera. Clothing with busy patterns or stripes may also cause some distortion.

If you see a blurred picture, or not enough detail, you can adjust the picture sharpness. (See *Detail/Movement Buttons* on page 18 for more information.)

Call Waiting and Three-Way Calling

If you subscribe to Call Waiting, you may want to disable it before placing a video call. The Call Waiting tone may disrupt the video call, causing the line quality to drop and the Line Quality Indicator to appear. Please check with your telephone service provider for the code to disable Call Waiting.

Three-Way Calling services are not currently compatible with Beamer TV or most videophones.

Compatibility

Both parties need a Beamer or compatible H.324 device to view Beamer TV's live full color video. Your Beamer TV will work with most videophones that meet the H.324 International Telecommunications Union (ITU) standard.

Care and Maintenance

To keep your Vialta Beamer TV working and looking good, follow these simple guidelines:

- Avoid putting your Beamer TV near heating appliances and devices that generate electrical noise. (For example, motors and fluorescent lamps.)
- Do not expose your Beamer TV to direct sunlight or moisture.
- Clean your Beamer TV with a soft cloth. (Remember to unplug your Beamer TV from the wall and telephone outlet first).
- Never use a strong cleaning agent or abrasive powder when caring for your Beamer TV, as this will damage the finish.
- Retain the original packaging for future use.

Please visit us at www.vialta.com/owners for more information.

Troubleshooting Guide

Problem	What to Do
No dial tone on phone connected to Beamer TV.	Make sure Beamer TV's LINE IN jack is connected to your telephone wall jack and that the phone is connected to Beamer TV's PHONE IN jack.
Can't be heard by other party.	Make sure mute is OFF on your phone. While establishing a video call the audio is muted until you see the other party.
Can't hear other party.	The audio is delivered to your phone handset only. Double check your handset volume. Make sure their mute is OFF on their phone. While establishing a video call the audio is muted until you see the other party.
Beamer TV won't connect.	Ensure that the AC power cord is connected securely. Only use the supplied AC power adapter. Have the other party initiate the video call. Try using another long distance carrier.
Choppy video & poor sound quality.	Adjust the balance between DETAIL and MOVEMENT . If this doesn't fix the problem, the connect rate may be low. Hang up and place the call again.
Black Screen	Be sure your television or VCR is set to the correct video input.
Remote does not work.	Battery may need to be changed. Verify that the Infrared receiver is not blocked.

Specifications

System	ITU-T Standard H.324	
Resolution	CIF	352 x 288 pixels
	QCIF	176 x 144 pixels
	SQCIF	128 x 96 pixels
Built-in Camera	Imaging Device	1/4" CMOS 101k pixels
	Dynamic Range	> 72dB
	Min. Illumination	< 3lux@f1.2
	Auto Exposure and White Balance	
Connections	RJ-11 Phone Line Jack, Power Input Jack, Video Output Jack	
Communications	POTS (Plain Old Telephone Service phone lines)	
	Max. 33.6 Kbps	
Power	Power Consumption	18 Watts
	Operating Voltage (AC adapter) 100-240 VAC, 50/60 Hz	
Temperature	Operating	0 - 40° C (non-condensing)
	Storage	-20 - 50° C (non-condensing)
Dimensions	1.5 in (H) x 6.0 in (D) x 7.6 in (W)	

Information contained in this User's Guide is subject to change at any time, and without notice.

Vialta®, Beamer™, Beamer TV™, Beamer FX™ and VistaFrame™ are trademarks of Vialta, Inc.

Service

The FCC requires that this product be serviced only by the manufacturer or its authorized service agents. In accordance with FCC requirements, changes or modifications not expressly approved by Vialta, Inc. could void the user's authority to operate this product. For instructions on how to obtain service refer to the warranty included in this guide or call Vialta Customer Care at 510-870-3198. Or send email to: support@vialta.com

Attach your sales receipt to this booklet for future reference, or jot down the date this product was purchased, along with the name of the store. This information will be valuable if service should be required during the warranty period.

Purchase
date _____

Name of
store _____

Limited Warranty

Vialta Beamer TV (BM-TV)

Be sure to keep your original sales slip. Attach it to this User's Guide and keep both accessible. Also, keep the original box and packing material in case you need to return your Beamer TV for service.

Limited Warranty

Vialta, Inc. (Vialta) warrants this product against substantial defects in materials or workmanship to the original purchaser as follows:

Labor: Vialta will repair or replace this product, at its option and without charge, if it is determined to be defective, for a period of 90 days from date of purchase. After 90 days, labor charges will apply to all repair services.

Parts: In addition, Vialta will replace defective parts, without charge, for a period of one year from date of purchase. After 90 days, labor charges will apply to all repair services.

Exclusions: This warranty does not cover installation or setup charges. Cosmetic damage, unauthorized repair, acts of God, accidental damage, misuse, abuse, negligence, improper voltage, or customer modification of the unit are not covered. Any commercial use of this product will automatically void this warranty. This warranty is invalid if the factory applied serial number has been altered or obliterated.

IN NO EVENT SHALL VIALTA BE LIABLE OR IN ANY WAY RESPONSIBLE FOR DAMAGES OR DEFECTS IN THE PRODUCT CAUSED BY REPAIRS OR ATTEMPTED REPAIRS PERFORMED BY ANYONE OTHER THAN AN AUTHORIZED SERVICE REPRESENTATIVE. NOR SHALL VIALTA BE LIABLE OR IN ANY WAY BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL ECONOMIC OR PROPERTY DAMAGE.

Because some states do not allow the exclusion or limitation of consequential or incidental damages, the above limitations may not apply to you. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE.

Proof of purchase, such as a bill of sale or receipted invoice that indicates that the unit is within the warranty period is required to obtain warranty service.

Warranty service will be provided when the product is returned to Vialta, in its original packaging and postage prepaid. For product return or customer questions, please call Vialta at 510-870-3198. Or send email to support@vialta.com.

FCC Statement

FCC Part 15 Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the Federal Communication Commission (FCC) Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Part 68 Information

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the bottom of this equipment is a label that contains, among other information, a product identifier in the format US:AAEQ##TXXXX. If requested, this number must be provided to the telephone company.

An applicable certification jacks Universal Service Order Codes (USOC) for the equipment is provided (i.e., RJ11C) in the packaging with each piece of approved terminal equipment.

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant. See installation instructions for details.

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of

the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US:AAAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3). For earlier products, the REN is separately shown on the label.

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

NOTICE: If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this equipment does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

NOTICE: According to telephone company reports, AC electrical surges, typically resulting from lightning strikes, are very destructive to telephone equipment connected to AC power sources. To minimize damage from these types of surges, a surge arrestor is recommended.

Should you experience trouble with this equipment, please contact Vialta at 510-870-3198 for repair or warranty information. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

Specials and Easy Registration

For cool tips, the latest Beamer specials, and easy online registration, check out www.vialta.com/owners

Other Products from Vialta

Beamer™ - Videophone Station that adds live color video on a 3.5" LCD flat screen.

VistaFrame™ - The innovative frame that displays your digital pictures.

For more information, please visit us at:

www.vialta.com



Vialta, Inc.
Fremont, California, USA
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